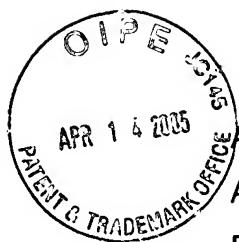


04-15-05

JFW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

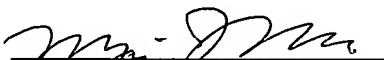
Application No. : 10/632,118 Confirmation No.: 1839
Applicant: : Wheeler et al.
Filed: : July 31, 2003
Group Art Unit : 1632
Examiner: : Joseph T. Woitach
For: : Nuclear Transfer With Embryonic Stem Cells
Docket No. : 99-02
Customer No. : 23713

CERTIFICATE OF MAILING

I hereby certify that this correspondence, along with any other document referred to as being attached or enclosed, is being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Label No. EV663224403US

On April 14, 2005


Marilyn J. Morris

INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Examiner is respectfully requested to consider references which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached Patent and Trademark Office Form PTO/SB/08A and B. Pursuant to the Waiver published in the Official Gazette on August 5, 2003 and because this application was filed after June 30, 2003, copies of cited U.S. patents are not included, but will be provided upon request.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute. No representation is made that Applicants know of the best art.

It is believed that this submission does not require the payment of any fees. If this is incorrect, however, please deduct the appropriate fee from deposit account 07-1969.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'DMF', with a long, sweeping horizontal line extending to the right.

Donna M. Ferber
Reg. No. 33,878

GREENLEE, WINNER AND SULLIVAN, P.C.
4875 Pearl East Circle, Suite 200, Boulder, CO 80301
Telephone: (303) 499-8080; Facsimile: (303) 499-8089
e-mail: winner@greenwin.com
Attorney Docket No. 99-02
Date: April 14, 2005

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/632,118
Filing Date	07/31/2003
First Named Inventor	Wheeler et al.
Art Unit	1632
Examiner Name	Joseph T. Voitach
Attorney Docket Number	99-02

GWS 4/14/2005

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	6,258,998	07/10/2001	Damiani et al.	
	2	6,193,647	02/27/2001	Beebe et al.	
	3	6,156,569	12/05/2000	Ponce de Leon, et al.	
	4	6,080,912	06/27/2000	Bremel et al.	
	5	6,025,540	02/15/2000	Hansson	
	6	6,011,197	01/04/2000	Strelchenko et al.	
	7	5,994,619	11/30/1999	Stice et al.	
	8	5,523,226	06/04/1996	Wheeler	
	9	5,057,420	10/15/1991	Massey et al.	
	10	4,994,384	02/19/1991	Prather et al.	
	11	2003/007018 6	04/10/2003	Strelchenko	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE		T ²
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	12	Allen et al. (1984). “ <i>In vitro</i> Development of Porcine Embryos in Coculture with Endometrial Cell Monolayers or Culture Supernatants,” <i>J. Anim. Sci.</i> 59:1657-1661.		
	13	Amano et al. (2001) “Full-Term Development of Enucleated Mouse Oocytes		
Examiner Signature			Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Fused with Embryonic Stem Cells from Different Cell Lines," <i>Reproduction</i> 121:729-733	
	14	Amano, et al. (2001) "Mouse Cloned from Embryonic Stem (ES) Cells Synchronized in Metaphase with Nocodazole," <i>J. Exp. Zoo.</i> 289:139-145	
	15	Archibong et al. (1989) "Development of Porcine Embryos From One- and Two-Cell Stages to Blastocysts in Culture Medium Supplemented with Porcine Oviductal Fluid," <i>Biol. Reprod.</i> 41:1076-1083.	
	16	Balakier et al. (1993) "Experimentally Induced Parthenogenetic Activation of Human Oocytes," <i>Hum. Reprod.</i> 8(5):740-743.	
	17	Barnes et al. (1993) "Influence of Recipient Oocyte Cell Cycle Stage on DNA Synthesis, Nuclear Envelope Breakdown, Chromosome Constitution, and Development in Nuclear Transplant Bovine Embryos," <i>Mol. Reprod. Dev.</i> 36:33-41.	
	18	Bleck et al. (1998) "Production of Bovine Alpha-Lactalbumin in the Milk of Transgenic Pigs," <i>J. Anim. Sci.</i> 76:3072-3078	
	19	Boston et al. (2001) "Short Communication: Effects of Increased Expression of Alpha-Lactalbumin in Transgenic Mice on Milk Yield and Pup Growth," <i>J. Dairy Sci.</i> 84:620-622	
	20	Bradshaw et al. (1995) "UV Irradiation of Chromosomal DNA and its Effect upon MPF and Meiosis in Mammalian Oocytes," <i>Mol. Reprod. Dev.</i> 41:503-512	
	21	Brem et al. (1985) "Production of Transgenic Mice, Rabbits and Pigs by Microinjection into Pronuclei," <i>Zuchthygiene</i> 20:251-252	
	22	Campbell et al. (1994) "Improved Development to Blastocyst of Ovine Nuclear Transfer Embryos Reconstructed During the Presumptive S-phase of Enucleated Activated Oocytes," <i>Biol. Reprod.</i> 50:1385-1393	
	23	Campbell et al. (1994) "Recent Advances on <i>in vitro</i> Culture and Cloning of Ungulate Embryos," Proceedings of the 5th International Congr. on Genetics Applied to Livestock Production 20:180-187	
	24	Campbell et al. (1997) "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress," <i>Theriogenology</i> 47:63-72	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	25	Campbell et al. (1996) "Sheep Cloned by Nuclear Transfer from a Cultured Cell Line," <i>Nature</i> 380:64-66	
	26	Campbell et al. (1996) "Cell Cycle Co-Ordination in Embryo Cloning by Nuclear Transfer," <i>Rev. Reprod.</i> 1:40-46	
	27	Chastant et al. (1996) "Quantitative Control of Gene Expression by Nucleocytoplasmic Interactions in Early Mouse Embryos: Consequence for Reprogrammation by Nuclear Transfer," <i>Mol. Reprod. Dev.</i> 44:423-432	
	28	Cheong et al. (1993) "Assessment of Cytoplasmic Effects on the Development of Mouse Embryonic Nuclei Transferred to Enucleated Zygotes," <i>Theriogenology</i> 39:451-461	
	29	Cheong et al. (1992) "Development of Mouse Embryonic Nuclei Transferred to Enucleated Oocytes and Zygotes," <i>Jpn. J. Vet. Res.</i> 40:149-159	
	30	Cheong et al. (1993) "Birth of Mice After Transplantation of Early Cell-Cycle-Stage Embryonic Nuclei into Enucleated Oocytes," <i>Biol. Reprod.</i> 48:958-963	
	31	Cheong et al. (1994) "Relationship Between Nuclear Remodeling and Subsequent Development of Mouse Embryonic Nuclei Transferred to Enucleated Oocytes," <i>Mol. Reprod. Dev.</i> 37:138-145	
	32	Cibelli et al. (1997) "Production of Germline Chimeric Bovine Fetuses From Transgenic Embryonic Stem Cells," <i>Theriogenology</i> 47:241 (Abstr.).	
	33	Collas et al. (1994) "Nuclear Transplantation by Microinjection of Inner Cell Mass and Granulosa Cell Nuclei," <i>Mol. Reprod. Dev.</i> 38:264-267	
	34	Collas et al. (1989) "Electrical Activation of Mouse Oocytes," <i>Theriogenology</i> 32:835-844	
	35	Collas et al. (1990) "Factors Affecting the Efficiency of Nuclear Transplantation in the Rabbit Embryo," <i>Biol. Reprod.</i> 43:877-884	
	36	Collas et al. (1991) "Relationship Between Nuclear Remodeling and Development in Nuclear Transplant Rabbit Embryos," <i>Biol. Reprod.</i> 45:455-465	
	37	Cuthbertson, K.S.R. (1983) "Parthenogenetic Activation of Mouse Oocytes <i>in vitro</i> with Ethanol and Benzyl Alcohol," <i>J. Exp. Zool.</i> 226:311-314	
	38	Czolowska et al. (1984) "Behaviour of Thymocyte Nuclei in Nonactivated and	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Activated Mouse Oocytes," <i>J. Cell Sci.</i> 69:19-34	
	39	Delhaise et al. (1995) "Nuclear Transplantation Using Bovine Primordial Germ Cells From Male Fetuses," <i>Reprod. Fertil. Dev.</i> 7:1217-1219	
	40	Didion et al. (1990) "Parthenogenetic Activation of Mouse and Pig Oocytes Matured <i>in vitro</i> ," <i>Theriogenology</i> 33:1165-1175	
	41	Du et al. (1995) "Nuclear Transfer of Putative Rabbit Embryonic Stem Cells Leads to Normal Blastocyst Development," <i>J. Reprod. Fertil.</i> 104:219-223	
	42	Du et al. (1995) "Beneficial Effect of Oocyte Activation Prior to and During Nuclear Transfer in Cattle Using <i>in vitro</i> Matured Oocytes 24 h of Age," <i>Reprod. Nutr. Dev.</i> 35:703-712	
	43	Eberhardt et al. (1994) "Oviductal Fluid and Growth Factors Failed to Enhance Development of Porcine Embryos," <i>Theriogenology</i> 41:1163-1172	
	44	First et al. (1992) "Use of <i>in vitro</i> Matured Oocytes 24 hr of Age in Bovine Nuclear Transfer," <i>Theriogenology</i> 37:211 (Abstr.)	
	45	Fulka et al. (1996) "Nuclear Transplantation in Mammals: Remodeling of Transplanted Nuclei Under the Influence of Maturation Promoting Factor," <i>BioEssays</i> 18:835-840	
	46	Fulka et al. (1994) "Nuclear Transplantation in Mammals: The Role of Maturation Promoting Factor," <i>Reprod. in Domest. Anim.</i> 29:352-353	
	47	Fulka et al. (1993) "Noninvasive Chemical Enucleation of Mouse Oocytes," <i>Mol. Reprod. Dev.</i> 34:427-430	
	48	Gerfen et al. (1995) "Isolation of Embryonic Cell-lines from Porcine Blastocysts," <i>Anim. Biotechnology</i> 6:1-14	
	49	Grocholova et al. (1997) "The Protein Phosphatase Inhibitor Okadaic Acid Inhibits Exit from Metaphase II in Parthenogenetically Activated Pig Oocytes," <i>J. Exp. Zool.</i> 277:49-56	
	50	Hagen et al. (1991) "Response of Porcine Oocytes to Electrical and Chemical Activation During Maturation <i>in vitro</i> ," <i>Mol. Reprod. Dev.</i> 28:70-73	
	51	Hammer et al. (1985) "Production of Transgenic Rabbits, Sheep and Pigs by Microinjection," <i>Nature (Lond.)</i> 315:680-683	
	52	Howlett et al. (1987) "Nuclear Cytoplasmic Interactions Following Nuclear Transplantation in Mouse Embryos," <i>Development</i> 101:915-923	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	53	Illmensee et al. (1981) "Nuclear Transplantation in <i>Mus musculus</i> : Developmental Potential of Nuclei from Preimplantation Embryos," <i>Cell</i> 23:9-18	
	54	Kashiwazaki et al. (1992) "Production of Chimeric Pigs by the Blastocyst Injection Method," <i>Vet. Rec.</i> 130:186-187	
	55	Keefer et al. (1992) " <i>In vitro</i> Culture of Bovine Nucleus Transfer Embryos," <i>Biol. Reprod.</i> 46 (Suppl. 1):166 (Abstr.).	
	56	Keefer et al. (1994) "Bovine Inner Cell Mass Cells as Donor Nuclei in the Production of Nuclear Transfer Embryos and Calves," <i>Biol. Reprod.</i> 50:935-939	
	57	Kono et al. (1991) "Production of Identical Twin and Triplet Mice by Nuclear Transplantation," <i>J. Exp. Zool.</i> 257:214-219	
	58	Kono et al. (1991) "Development of Enucleated Mouse Oocytes Reconstituted with Embryonic Nuclei," <i>J. Reprod. Fertil.</i> 93:165-172	
	59	Kono et al. (1992) "Development of Mouse Enucleated Oocytes Receiving a Nucleus from Different Stages of the Second Cell cycle," <i>J. Reprod. Fertil.</i> 94:481-487	
	60	Kono et al. (1994) "Effect of Ooplast Activation on the Development of Oocytes Following Nucleus Transfer in Cattle," <i>Theriogenology</i> 41:1463-1471	
	61	Kure-bayashi et al. (1996) "Development of Porcine Blastocysts From <i>in vitro</i> -Matured and Activated Haploid and Diploid Oocytes," <i>Theriogenology</i> 46:1027-1036	
	62	Kwon et al. (1996) "Production of Identical Sextuplet Mice by Transferring Metaphase Nuclei From Four-Cell Embryos," <i>Proc. Natl. Acad. Sci. USA</i> 93:13010-13013	
	63	Laurincik et al. (1994) "Differences in Pronucleus Formation and First Cleavage Following <i>in vitro</i> Fertilization Between Pig Oocytes Matured <i>in vivo</i> and <i>in vitro</i> ," <i>J. Reprod. Fertil.</i> 102:277-284	
	64	Laurincik et al. (1994) "Ovulation, Fertilization and Pronucleus Development in Superovulated Gilts," <i>Theriogenology</i> 41:447-452	
	65	Lavoie et al. (1997) "Development of Bovine Nuclear Transfer Embryos Made with Oogonia," <i>Biol. Reprod.</i> 56:194-199	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	66	Lee et al. (2002) "Cloned Zebrafish by Nuclear Transfer from Long-Term-Cultured Cells," <i>Nat. Biotechnol.</i> 20:795-799	
	67	Lee et al. (1993) "Effects of Fusion Medium, Voltage and Micromanipulation on Activation of Pig Oocytes and Blastomere Development," <i>Theriogenology</i> 39:257 (Abstr.).	
	68	Machaty et al. (1995) "Parthenogenetic Activation of Porcine Oocytes with Guanosine-5'-O-(3'-thiotriphosphate)," <i>Biol. Reprod.</i> 52:753-758	
	69	McGrath et al. (1984) "Inability of Mouse Blastomere Nuclei Transferred to Enucleated Zygote to Support Development <i>in vitro</i> ," <i>Science</i> 226:1317-1319	
	70	Meyen et al. (1989) "Development of Pig Blastocysts <i>in vitro</i> is Altered by Serum, Bovine Serum Albumin and Amino Acids and Vitamins," <i>Theriogenology</i> 31:463-471	
	71	Minamihashi et al. (1993) "Bovine Parthenogenetic Blastocysts Following <i>in vitro</i> Maturation and Oocyte Activation with Ethanol," <i>Theriogenology</i> 40:63-76	
	72	Mitalipov et al. (2002) "Rhesus Monkey Embryos Produced by Nuclear Transfer from Embryonic Blastomeres or Somatic Cells," <i>Biol. Reprod.</i> 66:1367-1373	
	73	Modlinski et al. (1996) "Embryonic Stem Cells: Developmental Capabilities and Their Potential Use in Mammalian Embryo Cloning," <i>Anim. Reprod. Sci.</i> 42:437-446	
	74	Moens et al. (1996) "Assessment of Nuclear Totipotency of Fetal Bovine Diploid Germ Cells by Nuclear Transfer," <i>Theriogenology</i> 46:871-880	
	75	Nagai, T. (1987) "Parthenogenetic Activation of Cattle Follicular Oocytes <i>in vitro</i> with Ethanol," <i>Gamete Res.</i> 16:243-249	
	76	Nagashima et al. (1992) "Development of Porcine Nuclear Transplant Embryos from 8-16 Cell Stage Donor Nuclei," <i>Theriogenology</i> 37:263 (Abstr.).	
	77	Nagy et al. (1993) "Derivation of Completely Cell Culture-Derived Mice from Early-Passage Embryonic Stem Cells," <i>Proc. Natl. Acad. Sci. USA</i> 90:8424-8428	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	78	Niwa, K. (1993) "Effectiveness of <i>in vitro</i> Maturation and <i>in vitro</i> Fertilization Techniques in Pigs," <i>J. Reprod. Fertil. Suppl.</i> 48:49-59	
	79	Noble et al. (2002) "Lactational Performance of First-Parity Transgenic Gilts Expressing Bovine Alpha-Lactalbumin in their Milk," <i>J. Anim. Sci.</i> 80:1090-1096	
	80	Notarianni et al. (1991) "Derivation of Pluripotent, Embryonic Cell Lines from the Pig and Sheep," <i>J. Reprod. Fertil. Suppl.</i> 43:255-260	
	81	Nussbaum et al. (1995) "Differential Effects of Protein Synthesis Inhibitors on Porcine Oocyte Activation," <i>Mol. Reprod. Dev.</i> 41:70-75	
	82	Ogura et al. (2000) "Birth of Mice After Nuclear Transfer by Electrofusion Using Tail Tip Cells," <i>Mol. Reprod. Dev.</i> 57:55-59	
	83	Otaegui et al. (1994) "Nuclear Transfer of 4-cell Mouse Embryos: Synchronization with Cytoplasm Partially Overcomes Nuclear Donor Cell-Cycle Effect," <i>J. Reprod. Fertil. Abstr. Series No. 13:24 (Abstr.)</i> .	
	84	Otaegui et al. (1994) "Transfer of Nuclei from 8-cell Stage Mouse Embryos Following Use of Nocodazole to Control the Cell Cycle," <i>Mol. Reprod. Dev.</i> 39:147-152	
	85	Ouhibi et al. (1996) "Nuclear Transplantation of Ectodermal Cells in Pig Oocytes: Ultrastructure and Radiography," <i>Mol. Reprod. Dev.</i> 44:533-539	
	86	Petr et al. (1996) "Activation of <i>in vitro</i> Matured Pig Oocytes by Combined Treatment of Ethanol and Cycloheximide," <i>Theriogenology</i> 45:1473-1478	
	87	Petters et al. (1993) "Culture of Pig Embryos," <i>J. Reprod. Fertil. Suppl.</i> 48:61-73	
	89	Prather, R. S. (1993) "Nuclear Control of Early Embryonic Development in Domestic Pigs," <i>J. Reprod. Fertil. Suppl.</i> 48:17-29	
	90	Prather et al. (1987) "Nuclear Transplantation in the Bovine Embryo: Assessment of Donor Nuclei and Recipient Oocyte," <i>Biol. Reprod.</i> 37:859-866	
	91	Prather et al. (1989) "Nuclear Transplantation in Early Pig Embryos," <i>Biol. Reprod.</i> 41:414-418	
	92	Prather et al. (1990) "Nuclear Transplantation in the Pig Embryo: Nuclear Swelling," <i>J. Exp. Zool.</i> 255:355-358	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	93	Prather et al. (1990) "Nuclear Transfer in Mammalian Embryos," <i>Int. Rev. Cytol.</i> 120:169-190	
	94	Prather et al. (1991) "Artificial Activation of Porcine Oocytes Matured <i>in vitro</i> ," <i>Mol. Reprod. Dev.</i> 28:405-409	
	95	Prochazka et al. (1995) "Behaviour of Blastomere Nuclei Fused to Mouse Oocytes is Affected by Oocyte Enucleation and Age," <i>Reprod. Nutr. Dev.</i> 35:695-701	
	96	Reed et al. (1992) "In vitro Culture of Pig Embryos," <i>Theriogenology</i> 37:95-109	
	97	Rickords et al. (1993) "Okadaic Acid Increases Rate of Activation of Electrically Activated <i>in vitro</i> Matured Porcine Oocytes," <i>Theriogenology</i> 39:296 (Abstr.).	
	98	Rideout et al. (2001) "Nuclear Cloning and Epigenetic Reprogramming of the Genome," <i>Science</i> 293:1093-1098	
	99	Robertson et al. (1986) "Germ-line Transmission of Genes Introduced into Cultured Pluripotent Cells by Retroviral Vector," <i>Nature (Lond.)</i> 323:445-448	
	100	Robl et al. (1986) "Nuclear Transplantation in Mouse Embryos: Assessment of Recipient Cell Stage," <i>Biol. Reprod.</i> 34:733-739	
	101	Robl et al. (1985) "Manipulation of Gametes and Embryos in the Pig," <i>J. Reprod. Fertil. Suppl.</i> 33:101-114	
	102	Robl et al. (1992) "Electrically Induced Fusion and Activation in Nuclear Transplant Embryos," In: D. C. Chang, B. M. Chassy, J. A. Saunders and A. E. Sowers (Ed.) <u>Guide to Electroporation and Electrofusion</u> pp. 535-551. Harcourt Brace Jovanovich, San Diego, CA	
	103	Robl et al. (1992) "Cell Fusion and Oocyte Activation," Proceedings of the Symp. on Cloning Mammals by Nuclear Transplantation. pp. 21-23. January 15, 1992. Fort Collins, CO	
	104	Samake et al. (1996) "Synchronization of Cell Division in Eight-Cell Bovine Embryos Produced <i>in vitro</i> : Effects of Nocodazole," <i>Mol. Reprod. Dev.</i> 44:486-492	
	105	Schoenbeck et al. (1993) "Diacylglycerol-Enhanced Electrical Activation of Porcine Oocytes Matured <i>in vitro</i> ," <i>Theriogenology</i> 40:257-266	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	106	Schoonjans et al. (1996) "Pluripotential Rabbit Embryonic Stem (ES) Cells are Capable of Forming Overt Coat Color Chimeras Following Injection into Blastocysts," <i>Mol. Reprod. Dev.</i> 45:439-443	
	107	Shi et al. (1993) "Synergistic Effect of A23187 and Cycloheximide Allows Effective Activation of Freshly Matured Bovine Oocytes," <i>Theriogenology</i> 39:309 (Abstr.)	
	108	Shin et al. (2002) "A Cat Cloned by Nuclear Transplantation," <i>Nature</i> 415:859	
	109	Sims et al. (1993) "Production of Calves by Transfer of Nuclei from Cultured Inner Cell Mass Cells," <i>Proc. Natl. Acad. Sci. USA</i> 90:6143-6147	
	110	Slapak et al. (1989) "Effect of Procedures Utilized for Nuclear Transfer on Bovine Oocyte Activation," <i>Theriogenology</i> 31:258 (Abstr.).	
	111	Smith et al. (1988) "Influence of Cell Cycle Stage at Nuclear Transplantation on the Development <i>in vitro</i> of Mouse Embryos," <i>J. Reprod. Fertil.</i> 84:619-624	
	112	Solter et al. (1985) "Nuclear Transfer in Mouse Embryos: Activation of the Embryonic Genome," Cold Spring Harbor Symp. on Quantitative Biology L:45-50. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY	
	113	Stewart, C. L. (1993) "Production of Chimeras Between Embryonic Stem Cells and Embryos," <i>Methods Enzymol.</i> 225:823-855	
	114	Stice et al. (1996) "Pluripotent Bovine Embryonic Cell Lines Direct Embryonic Development Following Nuclear Transfer," <i>Biol. Reprod.</i> 54:100-110	
	115	Stumpf et al. (1993) "Processing of Nuclei Transplanted into <i>in vitro</i> Matured Porcine Oocytes," <i>Theriogenology</i> 39:322 (Abstr.).	
	116	Szollosi et al. (1988) "Remodeling of Mouse Thymocyte Nuclei Depends on the Time of Their Transfer into Activated, Homologous Oocytes," <i>J. Cell Sci.</i> 91:603-613	
	117	Tadir et al. (1993) "Lasers for Gamete Micromanipulation: Basic Concepts," <i>J. Assisted Reprod. Genet.</i> 10:121-125	
	118	Terlouw et al. (1992) "In vitro Development of Nuclear Transplant Pig Embryos," <i>Theriogenology</i> 37:309 (Abstr.).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/632,118
		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Voitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	119	Terlouw et al. (1993) "Pig Oocyte Activation and Processing of Transplanted Nuclei," <i>Theriogenology</i> 39:329 (Abstr.).	
	120	Wagoner et al. (1996) "Functional Enucleation of Bovine Oocytes: Effects of Centerfugation and Ultraviolet Light," <i>Theriogenology</i> 46:279-284	
	121	Ware et al. (1989) "Age Dependence of Bovine Oocyte Activation," <i>Gamete Res.</i> 22:265-275	
	122	Wheeler, M. B. (1994) "Development and Validation of Swine Embryonic Stem Cells: A Review," <i>Reprod. Fertil. Dev.</i> 6:563-568	
	123	Wheeler et al. (1993) "Strategies for Improving Swine Growth," In: G. R. Hollis (Ed.) <i>Growth of the Pig</i> , pp. 167-183. CAB International, Wallingford, UK	
	124	Wheeler et al. (1995) "The Use of Embryonic Stem Cells in the Production of Transgenic Livestock," <i>Embryo Transfer Newsletter</i> 13:20-25	
	125	Wheeler, M.B. (1997) "Nuclear Transfer with Porcine Embryonic Stem Cells," P.H.D. Thesis, University of Illinois, Dec. 2001	
	126	White, B.R. (2001) "Transgenic Technology and Applications in Swine" <i>Theriogenology</i> 56(8):1354-1369	
	127	Wolf et al. (1999) "Nuclear Transfer in the Rhesus Monkey: Practical and Basic Implications," <i>Biol. Reprod.</i> 60:199-204	
	128	Wood et al. (1993) "Non-injection Methods for the Production of Embryonic Stem Cell-Embryo Chimeras," <i>Nature (Lond.)</i> 365:87-89	
	129	Wright, R.W., Jr. (1977) "Successful Culture <i>in vitro</i> of Swine Embryos to the Blastocyst Stage," <i>J. Anim. Sci.</i> 44:854-858	
	130	Yamauchi et al. (1996) "Effect of Culture Conditions on Artificial Activation of Porcine Oocytes Matured <i>in vitro</i> ," <i>Reprod. Fertil. Dev.</i> 8:1153-1156	
	132	Yang et al. (1994) "Synergistic Effect of Ethanol and Cycloheximide on Activation of Freshly Matured Bovine Oocytes," <i>Theriogenology</i> 41:395-403	
	133	Youngs et al. (1993) "Investigations into the Control of Litter Size in Swine. I. Comparative Studies on <i>in vitro</i> Development of Meishan and Yorkshire Preimplantation Embryos. <i>J. Anim. Sci.</i> 71:1561-1565	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.